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NPIC/TSSG/EP/818-68
1 March 1968

MEMORANDUM FOR THE RECORD

SUBJECT: Rapid Alignment Device for Microstereoscope

25X1 1. The rough draft Tech. Req. and Perf. Specs. were reviewed and verbal reports given to [] in late January 1968.

2. The comments that were included in the February 1968 final draft are:

a. Subparagraph 3.2.1.2 was changed from "The device shall not reduce the total light level transmitted by the instrument with which it is used by more than 60%" to "With uniformly illuminated fields of view, the device shall not reduce the total level transmitted by both eyepieces of the instrument with which it is used by more than 60%".

b. A specific range (50-75mm) for the interpupillary distance setting was added to subparagraph 3.3.1.4.

3. Various answers that were obtained are:

25X1 a. The contract with [] is to be for a prototype.

25X1 b. The 3 anamorphic eyepieces and 2 or 3 regular eyepieces mentioned in subparagraph 3.3.1.1 will be obtained for [] and EPB/DED [] when required for the necessary testing. 25X1

25X1 c. [] was in a hurry with the contract so the contract will not call for test procedures and approval thereof by EPB/DED.

d. The permissible change in light level of 60% or less specified in subparagraph 3.2.1.2 is caused mainly by the inherent 50% loss when beam-splitters are used. This leaves only 10% for other losses.

e. The jarring mentioned in subparagraphs 3.3.1.6 and 3.3.2.2 may be covered by specifications for shock for the production units.

Declass Review by NGA.

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Excluded from automatic
downgrading and
declassification

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4. Comments that were not resolved are:
 - a. Allowable limits for:
 1. Defocusing (3.2.2)
 2. Change in magnification (3.2.3)
 3. Image rotation (3.2.4)
 4. Jarring (Shock)
 - b. Resolution to be measured:
 1. On or Off axis
 2. With which chart
 3. Using what illumination
 4. At which anamorph settings
 - c. Use of a standard 'Exhibit' for the operators instruction book and the technician's maintenance book as well as the engineering drawings.
 - d. Which combinations of 4 a with 4 b are necessary.
5. The goal of being able to test the Rapid Alignment Device in-house in a meaningful way has not yet been reached.

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Equipment Performance Branch, TSS:

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